## **ANNIE**

	2021-9			2021-10			202	1-11			2	021-1	12			202	22-1			20	)22-2	
	36 37 38	39	40	41 42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8
ANNIE	ANNIE				_				•				•						_			
Move raw and processed data to per-run directories	Work in progi	ess	•																			
remove older files from /pnfs/annie/persistent/raw	Resolved																					
Remove v2data runs converted to v5data	Resolved																					
Remove from persistent runs <= 247	Resolved																					
SAM onboarding	Assigned																					
Remove persistent v3data for space	Resolved																					
Annie internal web pages to https://anniedata.fnal.go	Work in progi	ess	•																			
Remove v4data from pnfs to free space	Resolved																					
Remove v5data runs from pnfs to clear space	Work in progi	ess	•																			
archive v5data/0248 to 0252	Resolved																					
Configure /cvmfs/annie.opensciencegrid.org	Work in progr	ess	30%	•																		
ANNIE 2018 computing request for SCPMT	Work in progr	ess	30%	•																		
Create tape backed storage area for production ()	New																					
shared account logging for annieraw, anniepro	Resolved																					
annie-daq02 cleanup for Sep 2018 reinstall	Resolved																					
ANNIE 2019 computing request for SCPMT	New 10%																					
Annie ECL local password removal	New 20%																					
BNB Downtime	New																					
ANNIE 2020 computing request	New																					
BNB Downtime	New																					
/annie app and data ownership and cleanup	Resolved																					
Archiver restart in 2021	Work in progi	ess	90%	•																		
ANNIE 2021 computing request for FCRSG	New 20%																					
ANNIE1-Assembly	ANNIE1-Assembly																					
Cut top of tank	New																					
Modify top of tank, add round offs	New																					
PMT cabling and shipping	New																					

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Development of PMT installation procedure	New
Spot testing of PMTs	New
Construction of Inner Structure	New
Populate Crates in Hall	New
Assembly and installation of PMT modules	New
Installation of plastic liner	New
Practice lower inner structure into ()	New
Construction of NCV	New
Installation of Forward Veto Cabling	New
Lowering the tank in ANNIE Hall	New
Prelim ORC inspection	New
Finalize crates and racks	New
Access Platform: construction and installation	New
Lower inner structure into tank at ANNIE ()	New
NCV shipped to FNAL	New
Cabling of the installed tank	New
Set up water skid and recirculation ()	New
Water fill	New
ANNIE1-Commissioning	ANNIE1-Commissioning
DAQ commissioning	New
Dark commissioning of PMTs in ANNIE ()	New
Detector commissioning with water	New
Installation and commissioning of NCV	New
Final ORC review	New
Begin Run1 data taking	New
ANNIE1-Planning	ANNIE1-Planning
Contact Stephen Geer about June PAC ()	New
ANNIE Run 1 Electronics Review	New
Complete TSW for ANNIE experiment	New
Run 1 Mechanical Review	New
ANNIE1-electronics-design	ANNIE1-electronics-design
Figure out the data rates and size ()	Resolved
Final Decision on MRD and veto ()	New
What is our calibration system?	New

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Solidify Layout and number of crates ()	Assigned
Design for clock distribution and ()	Assigned
Get details of what we can get ()	New
Contact Zarko Pavlovic about ()	Assigned
UC ADC cards	Assigned
UC ADC user manual	Assigned
Externally trigger ADC cards	Assigned
Throughput testing for ADC ()	Resolved
Make readout methods (to be ()	Assigned
Redesign of LAPPD central card	New 40%
Interface for PSEC electronics ()	Assigned 50%
Send an ACDC + central card to ()	Assigned
HV pickoff & signal splitter	Assigned
Test final pickoff/splitter	New
Test HV resilliance up to ()	Resolved
Full sized pickoff/splitter ()	Resolved
Machine pickoff/splitter enclosure	Resolved
Attach bulkhead connectors ()	Assigned
Mount pickoff/splitter pcb ()	Assigned
HV pickoff/splitter enclosure	Assigned
Timing distribution system	Assigned
Select timing sources	Assigned
Determine the suitability ()	Assigned
Determine GPS antenna ()	Assigned
Check availability of ()	Resolved
Select and buy a suitable ()	New
Design and build full sized pickoff/splitter ()	Assigned
Pickoff/splitter enclosure production	Assigned
DAQ ZMQ/multicast integration	Resolved
DAQ Bool functions /status reporting	Resolved
DAQ Jason (lite) messgae passing	Resolved
DAQ Control systems	Resolved
DAQ monitoring system	New
Postgress setup	New

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D101 1 1 T001	New
DAQ board reader TOOL	New
DAQ output TOOL	Assigned
DAQ Serialisation	New
ANNIE1-MCstudies	ANNIE1-MCstudies
Geant-based estimate of beam neutron ()	New
Full MC model with 3D PMTs to study ()	New
Optimization of acrylic volume	New
SciBooNE driven calculation of ()	New 10%
ANNIE1-mechanical-design	ANNIE1-mechanical-design
Fermilab approval for tank purchase	New
Approval to purchase tank, from ()	New
Design of veto structure	New
Ship the muon veto structure	New
Water system shipped to FNAL for ()	New
Follow up with Steve Dazeley	New
Design of access platform	New
Design of inner strcture	New
Cost out plastic bag liner, get ()	New
Determine how structure and top ()	New
Design of tank top	New
Cost out PVC for ANNIE Run I Plan ()	New
Final decision on liner specs and ()	New
Finish design of PMT holders	New
Determine placement of water pump	New
ANNIE1-MRD-design	ANNIE1-MRD-design
Follow up with NMSU about keeping ()	New
Arrange to get the Kansas/Syracuse ()	New 50%
Follow up on Fermilab PMTs/Scintillator	New 60%
Sign over stewardship of the MRD ()	New
ANNIE1-Staging	ANNIE1-Staging
Tank Manufacture	New
MRD + veto system testing	New
Prototype PMT holder	New
Order materials for PMT structure	New

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Cables for Forward Veto ANNIE1-veto-installation Installation of Veto structure ANNIE2-sasembly Finish MRD Refurbishment Functional test of new MRD layers In situ calibration of MRD layers In situ calibration of MRD layers ANNIE2-mechanical-design ANNIE2-mechanical-design Finalize design and layout of water () Decision about the tank top Top with or without square hatch Design of the new tank lid Finalize design of source calibration () Write TSW Revise Specification Doc. Gd-Safety and procedures (discussion () Separate voltage regulators from () Draft LAPPD mounting board design Finalize design of the Tank Lid design Holders and Mount Concepts for () How to mount the LUX PMTs on the () Cleanliness and handling strategy Final layout of new LAPPD housing Finalize design of transparency () Identify new tank liner How to mount the WATCHMAN PMTs	Liner: collab buy-in, place order	New
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Identify new tank liner  New	Final layout of new LAPPD housing	New 50%
,	Finalize design of transparency ()	New
How to mount the WATCHMAN PMTs New	Identify new tank liner	New
	How to mount the WATCHMAN PMTs	New
Figure out how to optically isolate ()	Figure out how to optically isolate ()	New
Finalize experimental layout in () New	Finalize experimental layout in ()	New
Magnetization of the tank Assigned	Magnetization of the tank	Assigned

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ANNIE2-electronics-design	
readACDC after setConfig is all ()	New
Final crate and rack maps	New
Rack protection plan	New
Power distribution plan	New
Design the backboard for the LAPPD ()	New
Design for separate ACDC voltage ()	New
ANNIE2-Staging	
ANNIE2-electronics-readiness	
Finish new ACDC-ACC interface firmware	New
Ethernet interface for ACC	New
Firmware upgrades for KOTO boards ()	New

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